

Figure 1a

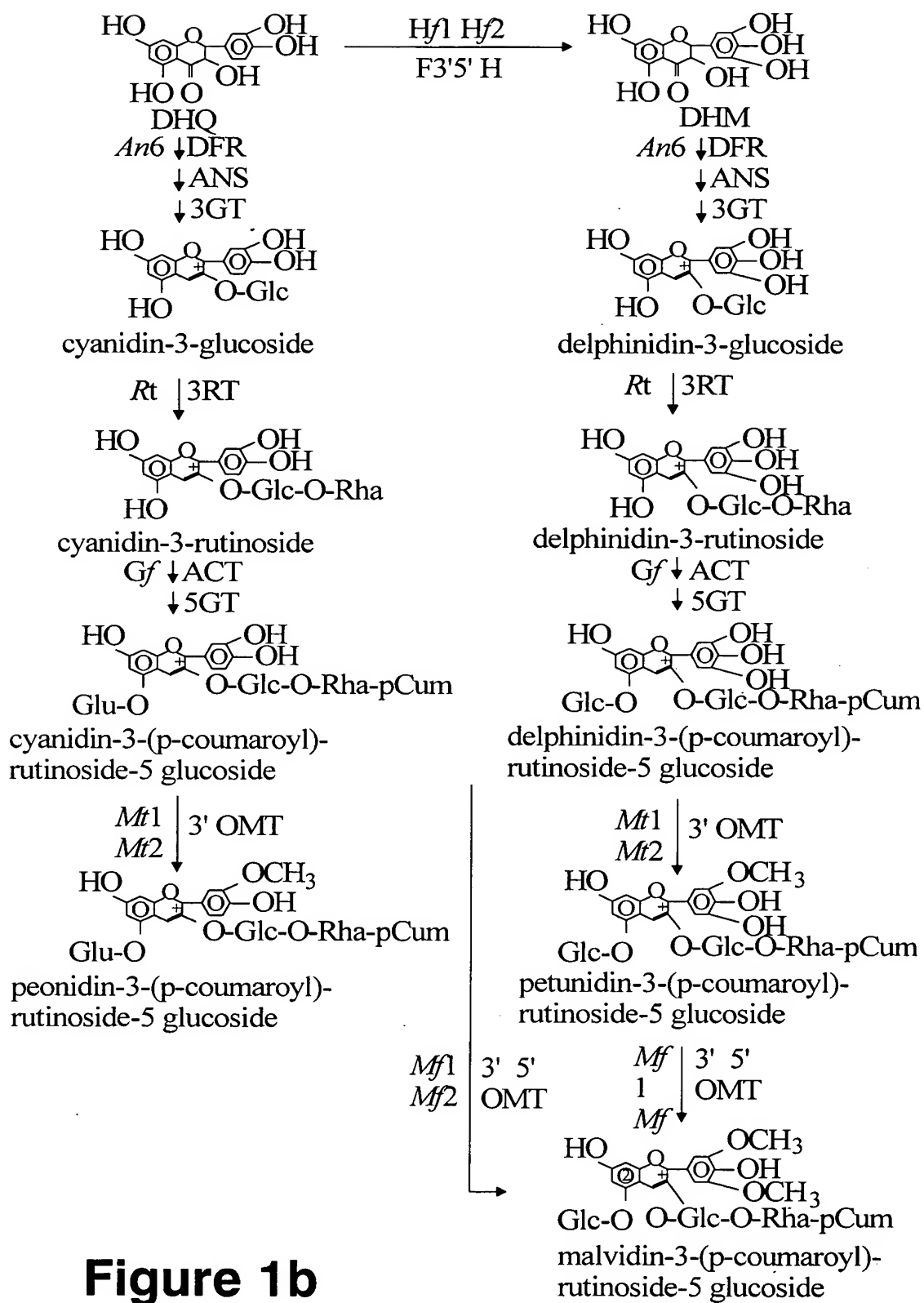


Figure 1b

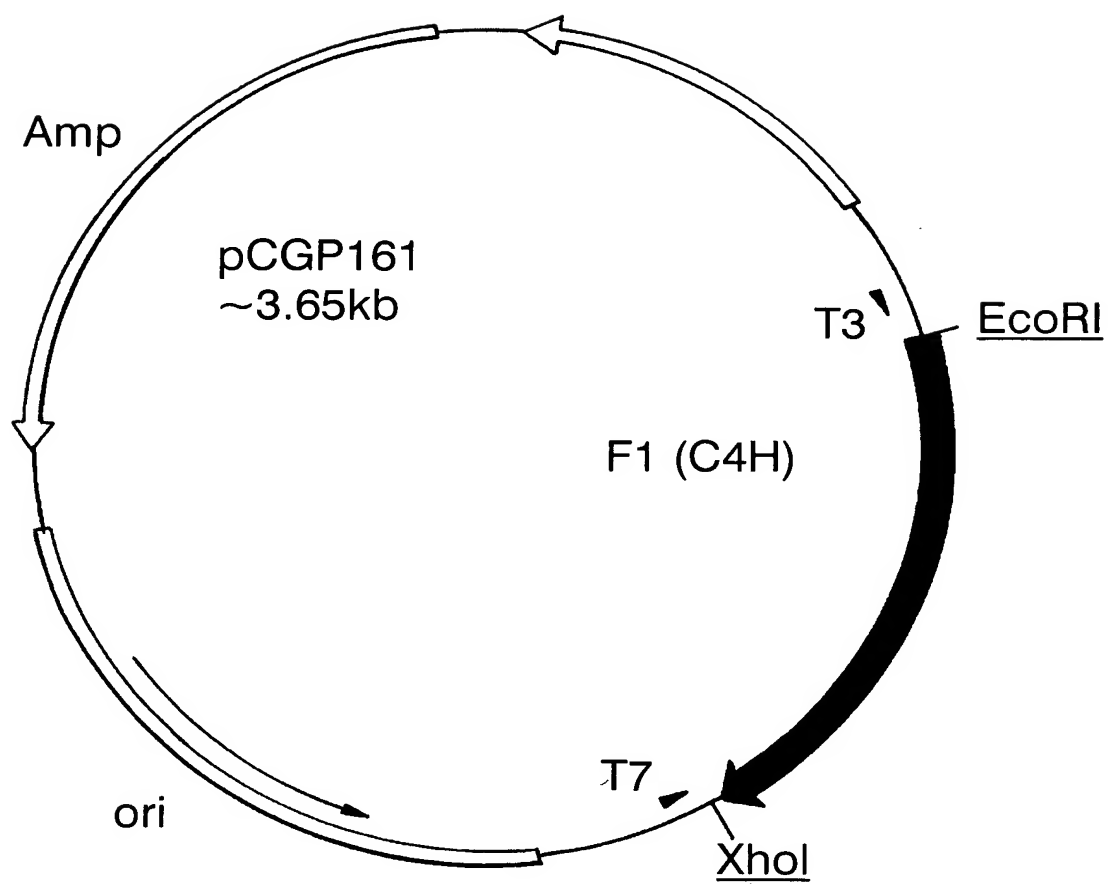


Figure 2

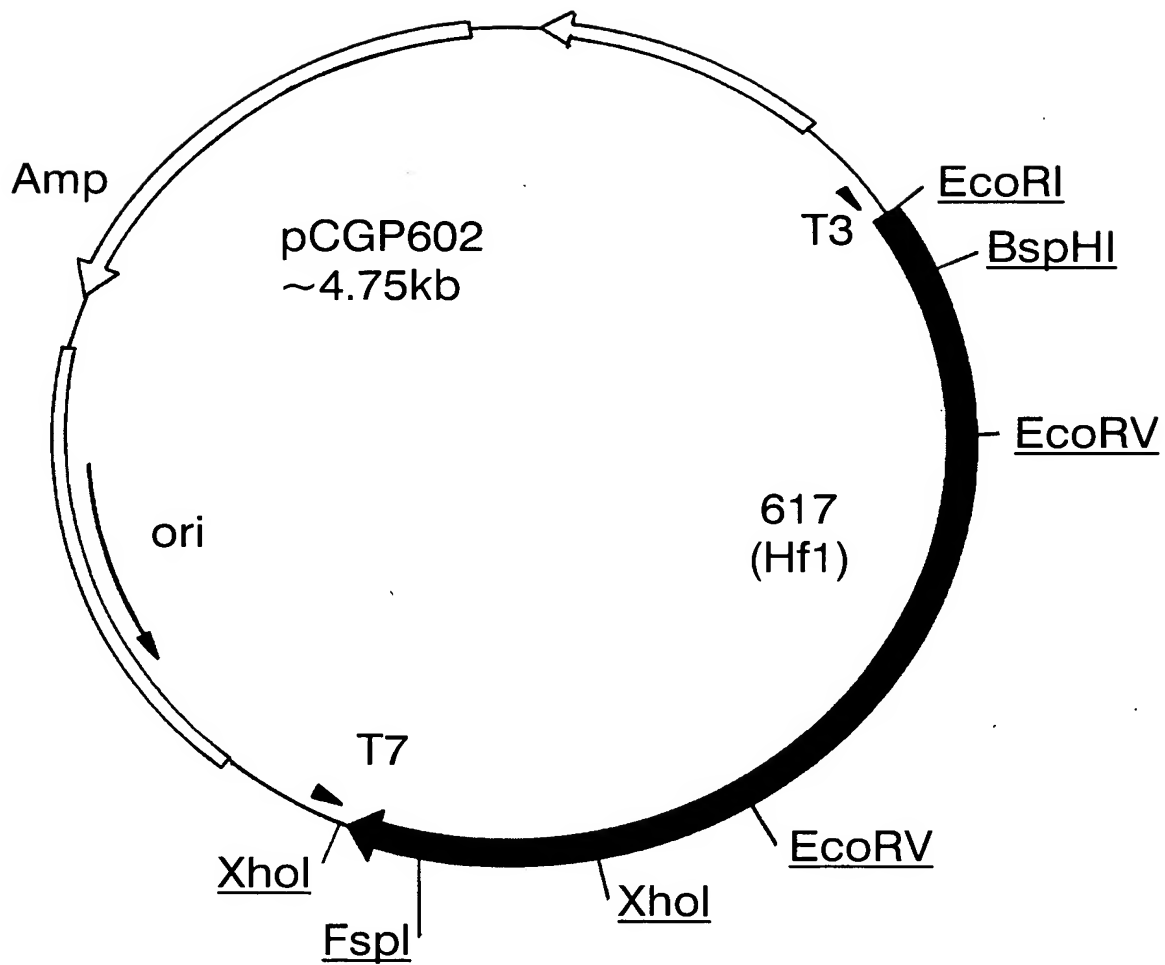


Figure 3

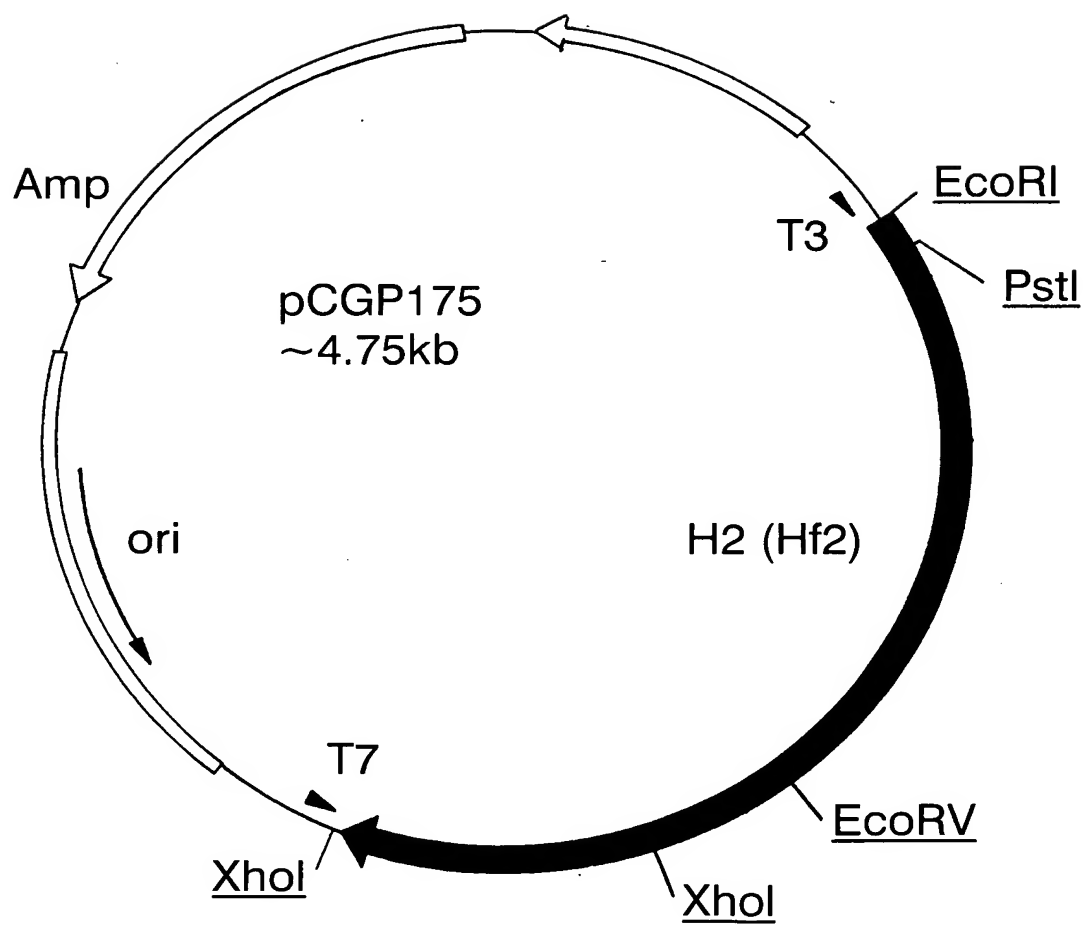


Figure 4

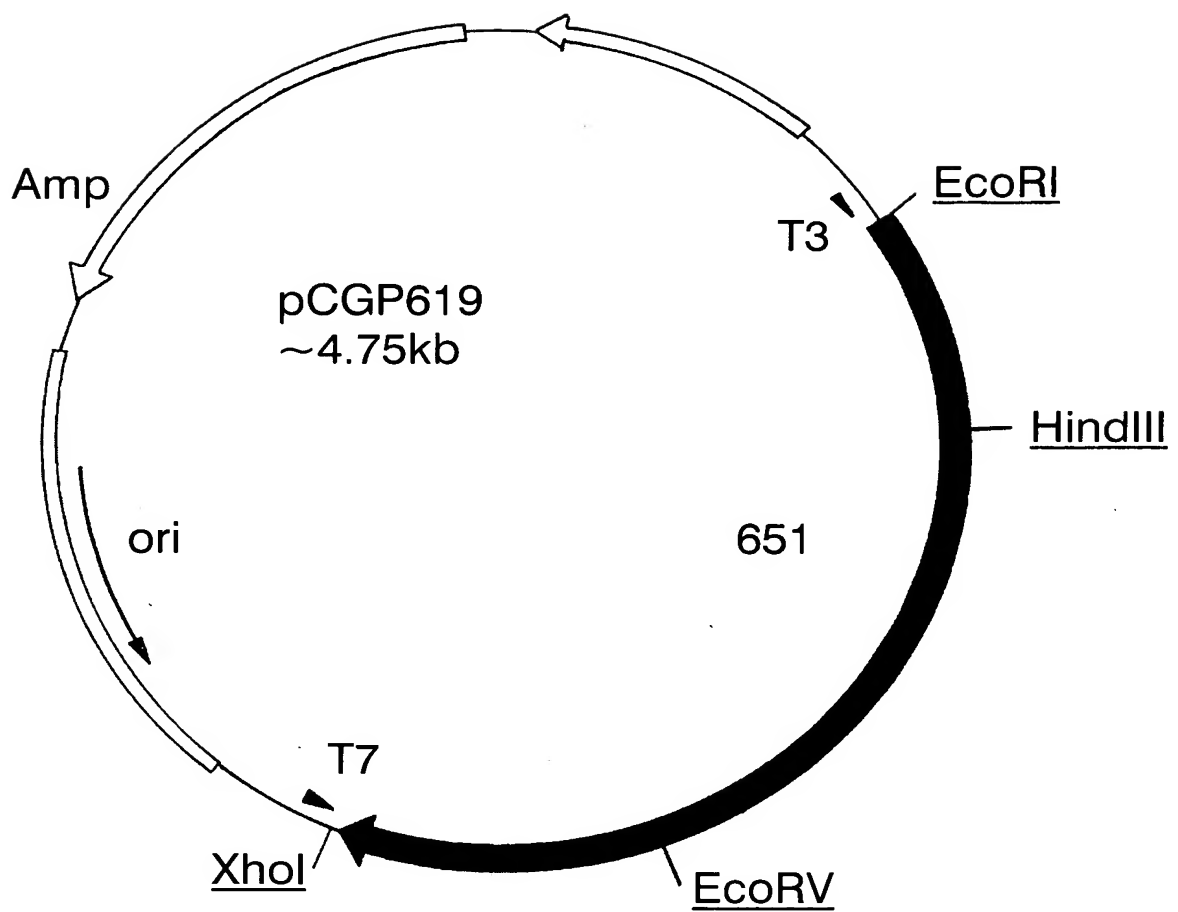


Figure 5

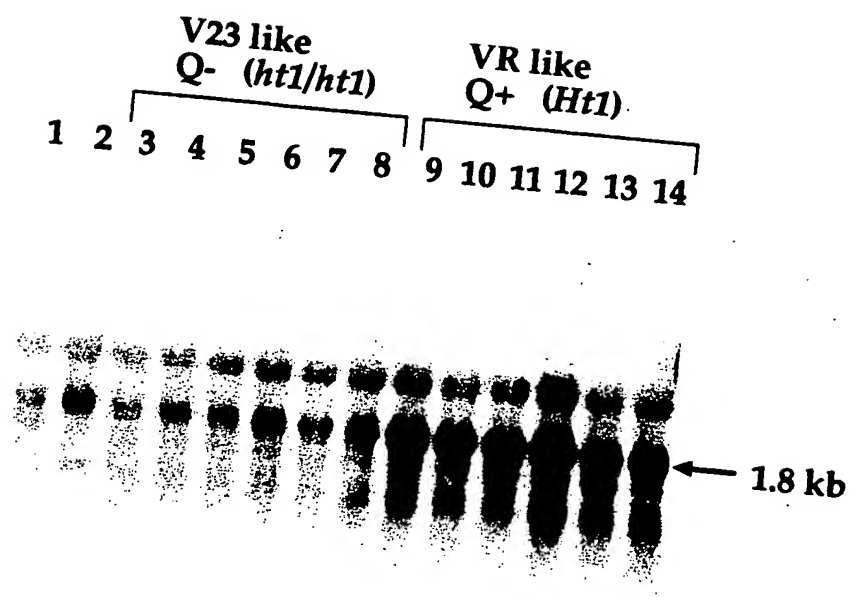


Figure 6

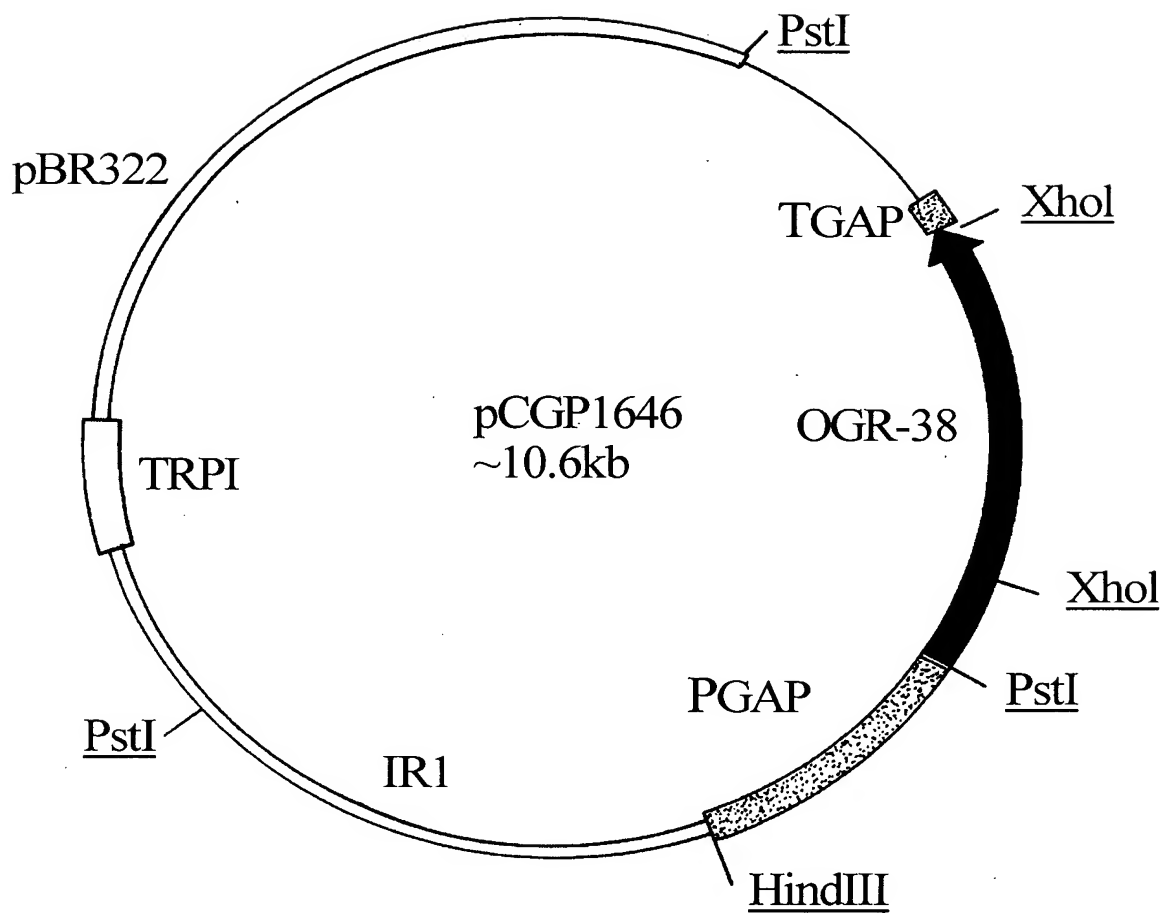


Figure 7

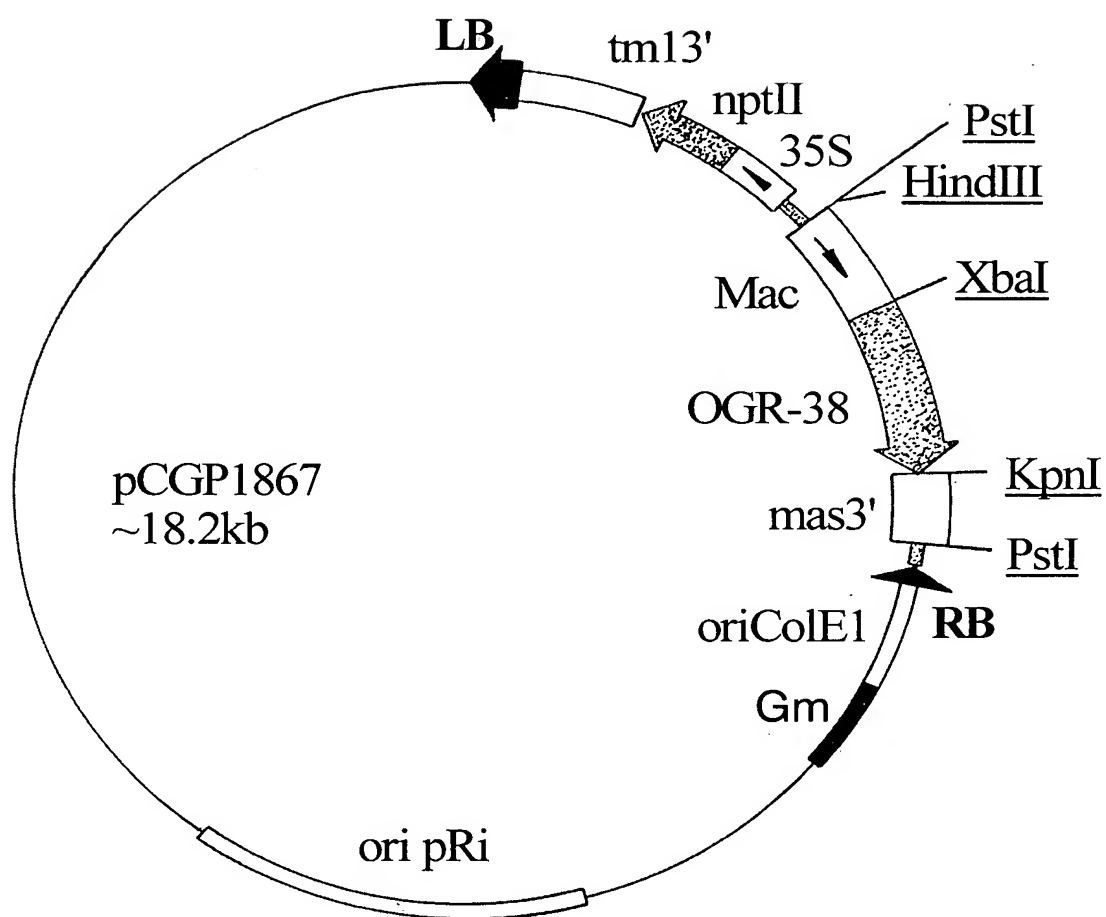


Figure 8

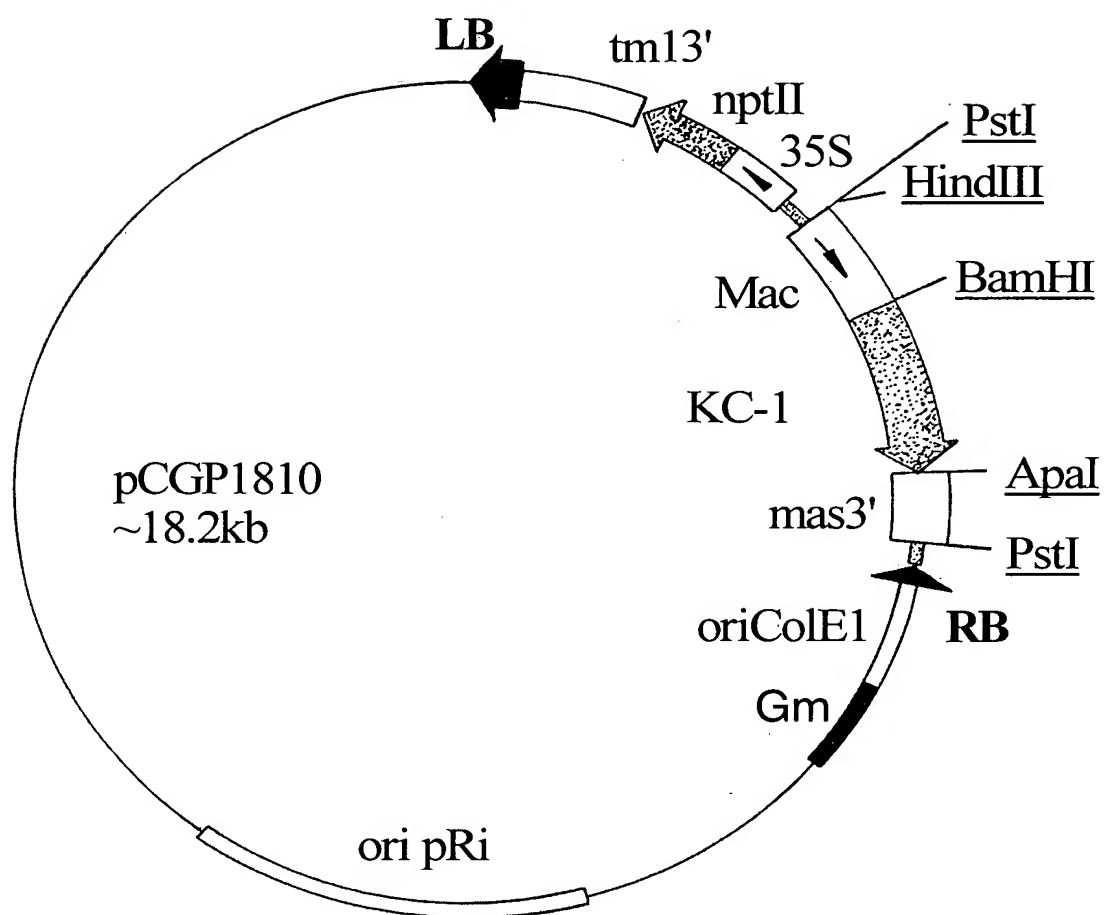


Figure 9

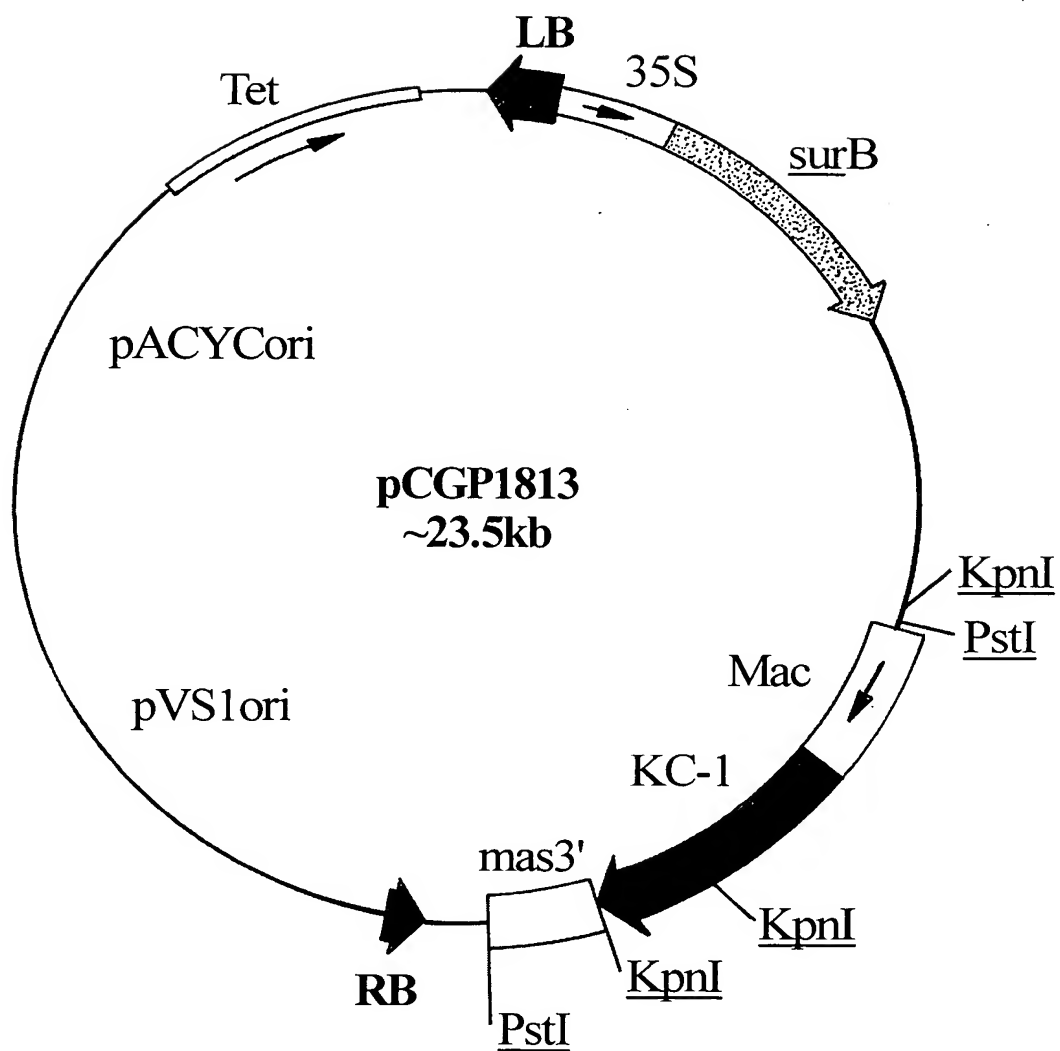


Figure 10

N8K16		N8 x K16 F2 population												
+	-	+	+	+	+	+	-	+	+	-	+	-	-	+
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15



Figure 11

CYANIDIN + CYANIDIN -
#1 #3 #4 #5 #8 #6 #11 #12 #13L



← 1.8 kb

Figure 12

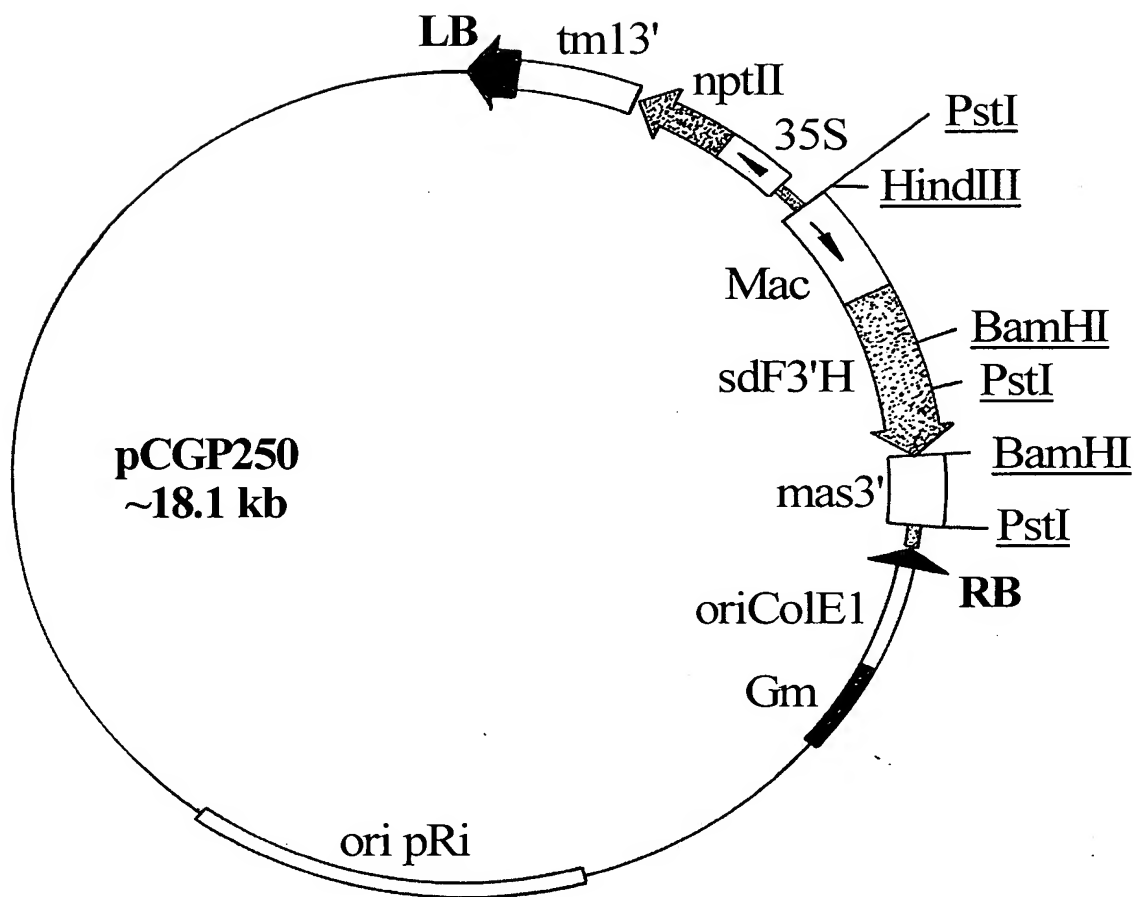


Figure 13

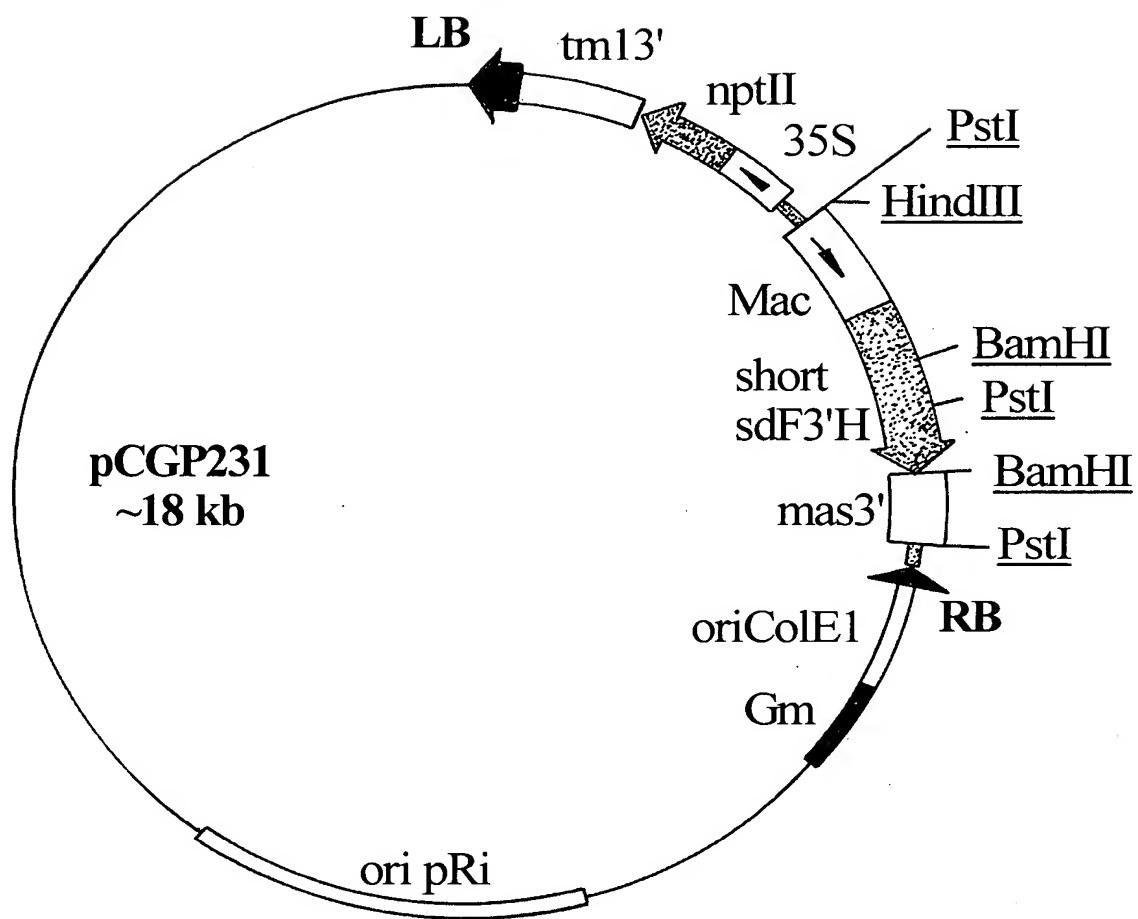


Figure 14

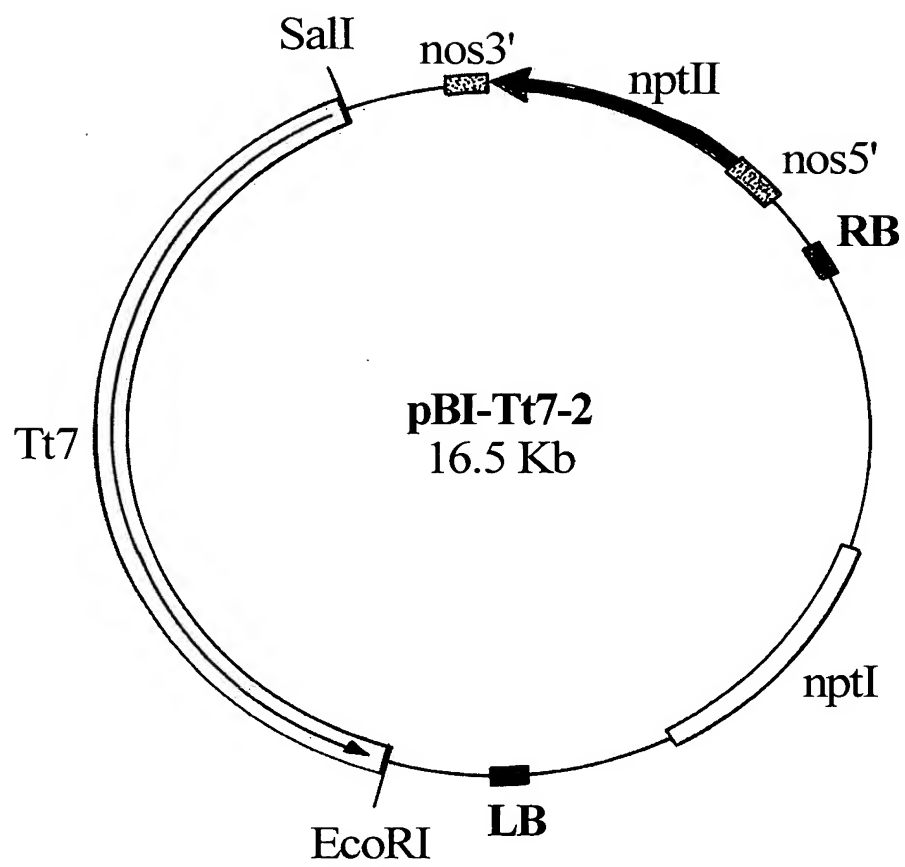


Figure 15

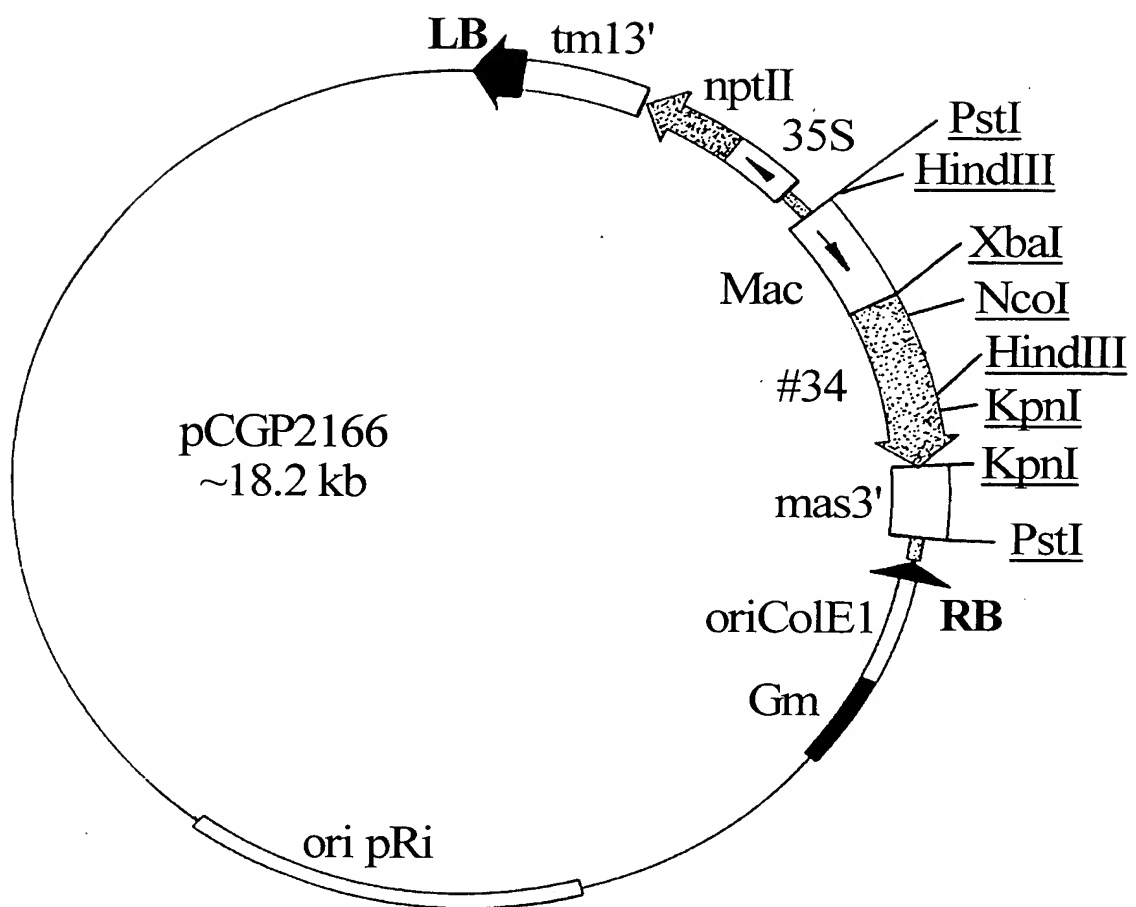


Figure 16

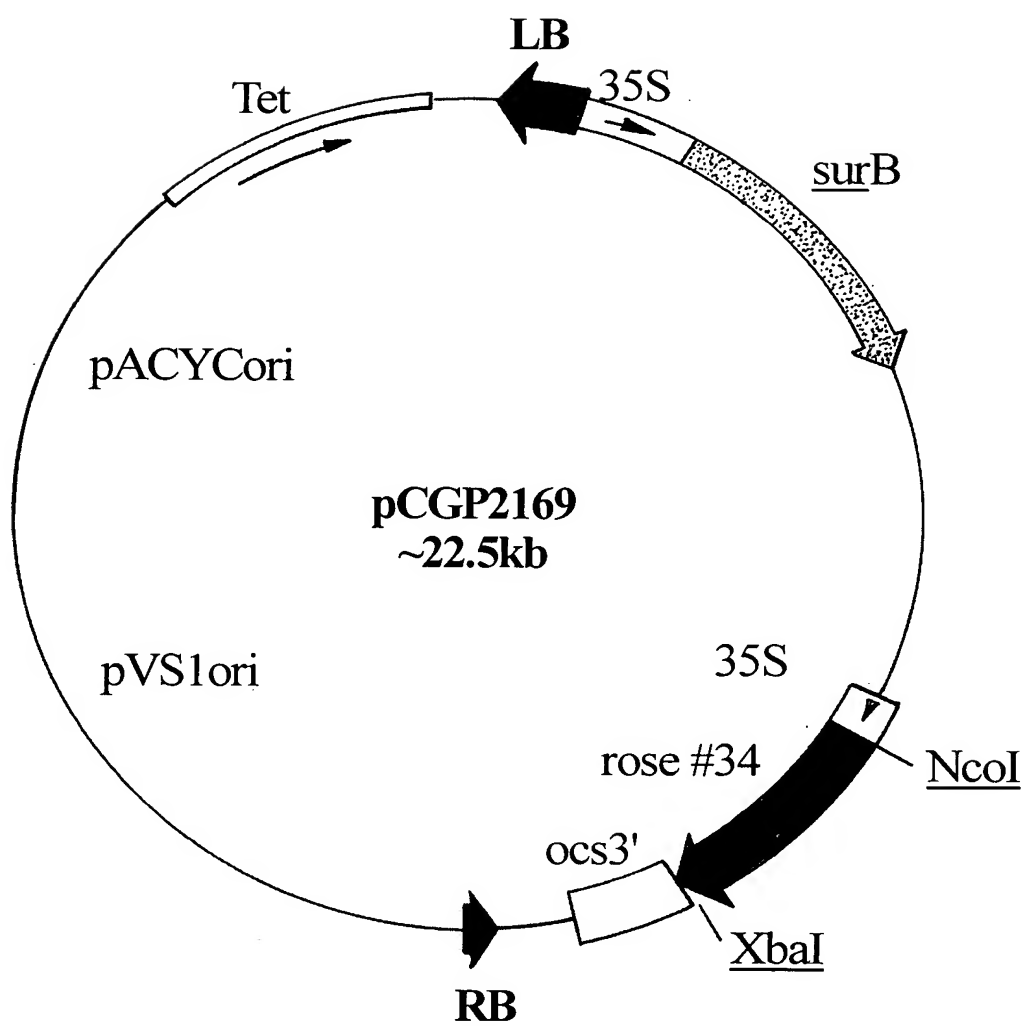


Figure 17

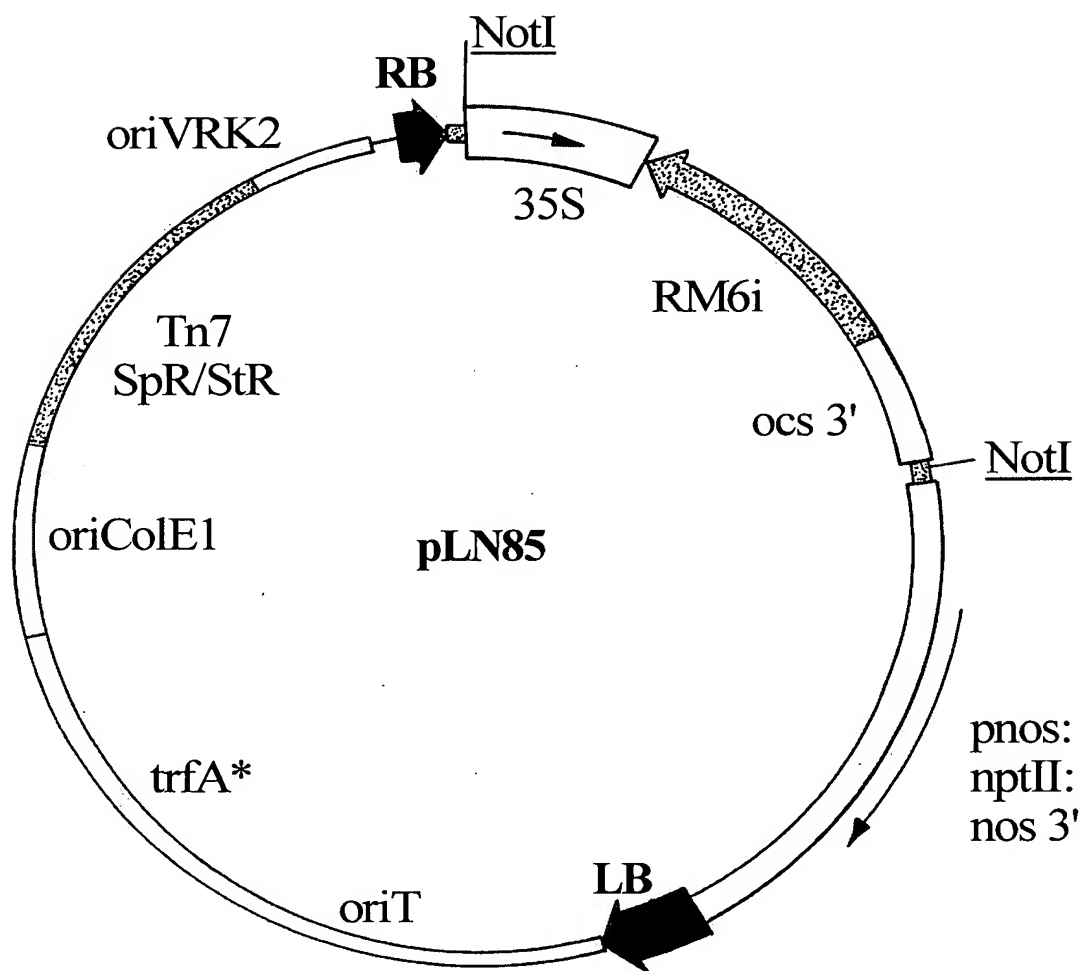


Figure 18

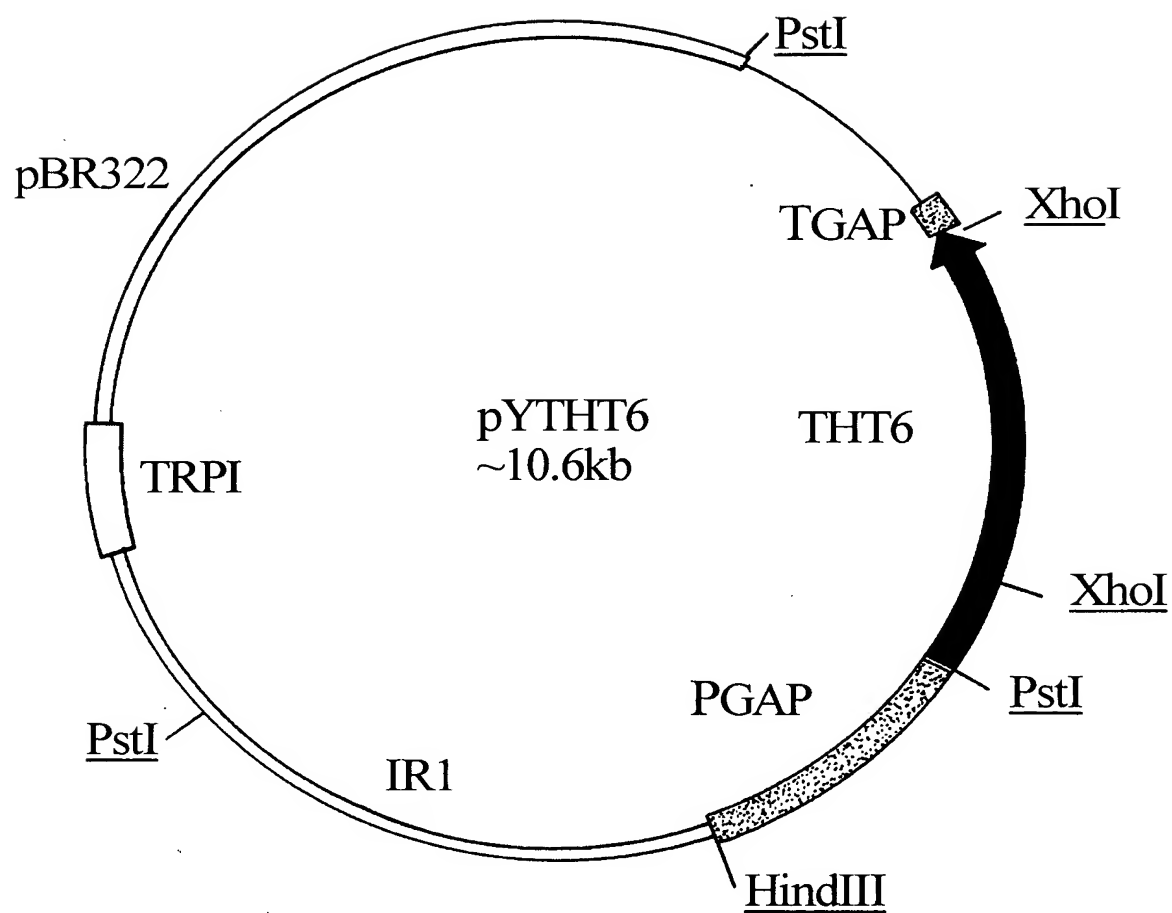


Figure 19

A	1	me	i	l	s	I	l	y	t	V	i	f	s	f	L	q	f	i	21
B	1									M	h	n	l	y	Y	l	t	V	11
C	1	l	m	q	h	q	y	s	l	i	t	m	d	d	i	s	I	t	30
D	1															L	f	20	
E	1															L	r	19	
F	1															L	f	21	
G	1															L	r	23	
H	1															L	f	19	
I	1															L	f	0	
J	1															L	f	0	
K	1															L	f	20	

A	22	r	-	s	f	r	k	R	y	p	l	p	L	p	p	p	G	p	k	p	w	p	i	I	G	n	L	v	H	L	G	50	
B	12	f	r	g	-	-	-	K	h	q	k	p	L	p	p	p	G	p	r	p	w	p	i	I	V	G	n	L	p	H	M	G	36
C	31	l	l	y	s	f	l	K	k	v	k	p	L	p	p	p	G	p	k	p	w	p	i	I	V	G	n	L	p	H	L	G	60
D	21	f	s	h	r	r	n	r	s	h	n	r	L	p	p	p	G	p	n	p	w	p	i	I	G	n	L	p	H	M	G	50	
E	20	f	s	g	k	s	q	r	-	h	s	l	p	L	p	p	G	p	K	p	w	p	v	V	G	n	L	p	H	L	G	48	
F	22	n	l	s	-	-	-	R	k	s	a	r	L	p	p	p	G	p	t	p	w	p	i	I	V	G	n	L	p	H	L	G	48
G	24	l	l	f	s	g	q	g	R	-	-	r	L	p	p	p	G	p	R	p	w	p	L	V	G	n	L	p	H	L	G	51	
H	20	l	r	-	-	v	k	q	R	y	p	l	p	L	p	p	G	p	K	p	w	p	V	L	G	n	L	p	H	L	G	47	
I	1																														10		
J	1																														0		
K	21	m	s	l	r	-	r	r	K	i	s	k	k	L	p	p	p	G	p	f	P	I	G	n	L	h	L	G	49				

A-----A

Figure 20a

A

A	51 p	K	P	H	Q	S	t	A	A	M	A	Q	t	Y	G	P	L	M	y	L	K	M	G	F	V	D	V	V	V	A	80
B	37 q	a	P	H	Q	g	L	A	A	L	A	Q	k	Y	G	P	L	L	y	M	R	L	G	Y	V	D	V	V	V	A	66
C	61 p	K	P	H	Q	S	M	A	A	L	A	R	v	h	G	P	L	I	H	L	K	M	G	F	V	h	V	V	V	A	90
D	51 t	K	P	H	R	T	L	S	A	M	v	t	t	Y	G	P	L	L	H	L	R	L	G	F	V	D	V	V	V	A	80
E	49 p	f	P	H	H	S	I	A	e	L	A	K	k	h	G	P	L	M	H	L	R	L	G	Y	V	D	V	V	V	A	78
F	49 p	i	P	H	H	A	L	A	A	L	A	K	k	Y	G	P	L	M	H	L	R	L	G	c	V	D	V	V	V	A	78
G	52 p	K	P	H	a	S	M	A	e	L	A	R	a	Y	G	P	L	M	H	L	K	M	G	F	V	h	V	V	V	A	81
H	48 k	K	P	H	Q	S	I	A	A	M	A	e	r	Y	G	P	L	M	H	L	R	L	G	F	V	D	V	V	V	A	77
I	11 s	K	P	H	Q	T	L	A	e	M	A	K	t	Y	G	P	L	M	H	L	K	f	G	I	k	D	a	V	V	A	40
J	1																													0	
K	50 n	H	P	H	K	S	L	A	q	L	A	K	i	h	G	P	I	M	N	L	K	L	G	q	L	n	t	V	V	i	79

A	81	A	S	S	V	A	a	Q	F	L	K	t	H	D	A	N	F	S	S	R	P	P	N	S	G	A	e	H	M	A	110	
B	67	A	S	A	S	V	A	t	Q	F	L	K	t	H	D	I	N	F	S	S	R	P	P	N	S	G	A	K	H	I	A	96
C	91	S	S	A	S	V	A	e	k	F	L	K	v	H	D	A	N	F	S	S	R	P	P	N	S	G	A	K	H	V	A	120
D	81	A	S	k	S	V	A	e	Q	F	L	K	i	H	D	A	N	F	A	S	R	P	P	N	S	G	A	K	H	M	A	110
E	79	A	S	A	S	V	A	a	Q	F	L	K	t	H	D	A	N	F	S	S	R	P	P	N	S	G	A	K	H	L	A	108
F	79	A	S	A	S	V	A	a	Q	F	L	K	v	H	D	A	N	F	A	S	R	P	P	N	S	G	A	K	H	V	A	108
G	82	S	S	A	S	a	A	e	Q	c	L	K	v	H	D	A	N	F	I	S	R	P	P	N	S	G	A	K	H	V	A	111
H	78	A	S	A	A	V	A	a	Q	F	L	K	v	H	D	S	N	F	S	n	R	P	P	N	S	G	A	e	H	I	A	107
I	41	S	S	A	S	V	A	e	Q	F	L	K	k	H	D	v	N	F	S	n	R	P	P	N	S	G	A	K	H	I	A	70
J	1																														0	
K	80	S	S	S	v	V	A	r	E	v	L	O	k	Q	D	I	T	F	S	n	R	f	v	p	d	v	v	H	v	r	n	109



Figure 20b

B-----B

A	111	Y	N	Y	Q	D	L	V	F	A	P	Y	G	P	R	W	R	M	L	R	K	I	C	S	V	H	L	F	S	T	K	140
B	97	Y	N	Y	Q	D	L	V	F	A	P	Y	G	P	K	W	R	M	L	R	K	I	C	S	L	H	M	F	S	S	K	126
C	121	Y	N	Y	Q	D	L	V	F	A	P	Y	G	P	R	W	R	M	L	R	K	I	C	A	L	H	L	F	S	A	K	150
D	111	Y	N	Y	Q	D	L	V	F	A	P	Y	G	h	R	W	R	L	L	R	K	I	S	S	V	H	L	F	S	A	K	140
E	109	Y	N	Y	Q	D	L	V	F	r	P	Y	G	P	R	W	R	M	f	R	K	I	S	S	V	H	L	F	S	g	K	138
F	109	Y	N	Y	Q	D	L	V	F	A	P	Y	G	P	R	W	R	L	L	R	K	I	C	S	V	H	L	F	S	A	K	138
G	112	Y	N	Y	E	D	L	V	F	r	P	Y	G	P	K	W	R	L	L	R	K	I	C	A	q	H	I	F	S	v	K	141
H	108	Y	N	Y	Q	D	L	V	F	A	P	Y	G	P	R	W	R	M	L	R	K	I	T	S	V	H	L	F	S	A	K	137
I	71	Y	N	Y	Q	D	L	V	F	A	P	Y	G	P	R	W	R	L	L	R	K	I	C	S	V	H	L	F	S	A	K	100
J	1																														0	
K	110	h	s	d	f	s	V	V	w	l	P	v	N	s	R	W	K	t	L	R	K	I	m	n	s	s	I	F	S	g	n	139

A	141	A	L	D	D	F	R	H	V	R	Q	D	-	-	-	E	V	k	t	L	T	R	A	L	A	s	A	G	q	k	P	167
B	127	A	L	D	D	F	R	I	V	R	Q	E	-	-	-	E	V	S	I	L	v	n	A	I	A	k	A	G	t	k	P	153
C	151	A	L	n	D	F	t	H	V	R	Q	D	-	-	-	E	V	g	I	L	T	R	v	L	A	d	A	G	e	t	P	177
D	141	A	L	E	D	F	K	H	V	R	Q	E	-	-	-	E	V	g	t	L	T	R	e	L	v	r	n	G	t	k	P	167
E	139	A	L	D	D	I	K	H	V	R	Q	E	-	-	-	E	V	S	V	L	A	H	A	L	A	n	S	G	s	k	v	165
F	139	A	L	D	D	F	R	H	V	R	Q	E	-	-	-	E	V	A	V	L	T	R	v	L	I	s	A	G	n	s	P	165
G	142	A	M	D	D	F	R	R	V	R	E	E	-	-	-	E	V	A	I	L	S	R	A	L	A	-	G	k	r	a	166	
H	138	A	L	D	D	F	c	H	V	R	Q	E	-	-	-	E	V	A	t	L	T	R	S	L	A	s	A	G	k	t	P	164
I	101	A	L	D	D	F	Q	H	V	R	h	E	-	-	-	E	I	C	I	L	i	R	A	I	A	s	G	h	a	n	P	127
J	1															r	I	L	T	R	S	I	A	s	A	k	n	G	e	-	P	14
K	140	k	L	D	g	n	Q	H	L	R	s	k	v	q	E	L	i	d	y	C	Q	k	c	A	a	G	e	-	a	168		

C-----C

Figure 20c

C-----C

A	168	V	k	L	G	Q	L	L	N	V	C	T	T	N	A	L	A	R	V	M	L	G	K	R	V	F	a	d	G	s	G	197
B	154	V	Q	L	G	Q	L	L	N	V	C	T	T	N	A	L	S	R	V	M	L	G	K	R	V	I	G	d	G	t	G	183
C	178	L	k	L	G	Q	M	M	N	t	C	A	T	N	A	I	A	R	V	M	L	G	R	R	V	v	G	h	a	d	-	206
D	168	V	N	L	G	Q	L	V	N	M	C	v	v	N	A	L	g	R	e	M	I	G	R	R	L	F	G	-	-	a	-	194
E	166	V	N	L	a	Q	L	L	N	L	C	T	v	N	A	L	g	R	V	M	V	G	R	R	V	F	G	d	G	s	G	195
F	166	V	Q	L	G	Q	L	L	N	V	C	A	T	N	A	L	A	R	V	M	L	G	R	R	V	F	G	-	-	d	-	192
G	167	V	p	I	G	Q	M	L	N	V	C	A	T	N	A	L	S	R	V	M	M	G	R	R	V	v	G	h	a	d	G	196
H	165	V	k	L	G	Q	L	L	N	V	C	T	T	N	A	L	A	R	V	M	L	G	R	K	V	F	N	d	G	s	G	194
I	128	V	N	L	G	K	L	L	G	V	C	T	T	N	A	L	A	R	V	M	L	G	R	R	V	F	e	-	G	d	G	156
J	15	I	N	L	G	Q	L	L	G	V	C	T	T	N	A	L	A	R	V	M	L	G	R	R	V	F	G	d	G	s	G	44
K	169	V	d	I	G	R	a	t	f	g	T	I	N	I	L	S	n	t	I	f	s	K	d	L	t	N	-	-	-	-	-	194

A	198	d	v	D	P	Q	A	a	E	F	K	S	M	V	V	E	M	M	V	V	A	G	V	F	N	I	G	D	F	I	P	227
B	184	k	s	D	P	K	A	E	E	F	K	d	M	V	L	E	L	M	V	L	T	G	V	F	N	I	G	D	F	V	P	213
C	207	-	-	s	K	A	E	E	F	K	A	M	V	V	E	L	M	V	L	A	G	V	F	N	I	G	D	F	I	P	233	
D	195	d	a	D	h	K	A	D	E	F	R	S	M	V	t	E	M	M	a	L	A	G	V	F	N	I	G	D	F	V	P	224
E	196	g	d	D	P	K	A	D	E	F	K	S	M	V	V	E	M	M	V	L	A	G	V	F	N	I	G	D	F	I	P	225
F	193	g	i	D	r	s	A	n	E	F	K	d	M	V	V	E	L	M	V	L	A	G	e	F	N	I	G	D	F	I	P	222
G	197	t	n	D	a	K	A	E	E	F	K	A	M	V	V	E	L	M	V	L	S	G	V	F	N	I	G	D	F	I	P	226
H	195	k	s	D	P	K	A	E	E	F	K	S	M	V	e	E	M	M	V	L	A	G	s	F	N	I	G	D	F	I	P	224
I	157	g	e	n	P	H	A	D	E	F	K	S	M	V	V	E	I	M	V	L	A	G	a	F	N	I	G	D	F	I	P	186
J	45	g	v	D	P	Q	A	D	E	F	K	S	M	V	V	E	I	M	V	L	A	G	a	F	N	I	G	D	F	I	P	74
K	195	p	f	s	d	s	A	k	E	F	K	e	L	V	w	n	I	M	V	e	A	G	k	p	N	L	v	D	Y	f	P	224

D-----D

Figure 20d

D-----D

A	228	L	n	W	L	D	I	Q	G	V	A	A	K	M	K	K	L	H	A	R	F	D	A	F	L	T	d	257
B	214	L	E	c	L	D	L	Q	G	V	A	S	K	M	K	K	L	H	k	R	I	D	n	F	M	S	n	243
C	234	L	E	k	L	D	L	Q	G	V	i	A	K	M	K	K	L	H	i	R	F	D	S	F	L	S	k	263
D	225	L	D	W	L	D	L	Q	G	V	A	g	K	M	K	R	L	H	k	R	F	D	A	F	L	S	s	254
E	226	L	E	W	L	D	L	Q	G	V	A	S	K	M	K	K	L	H	k	R	F	D	d	F	L	T	a	255
F	223	L	D	i	f	D	L	Q	G	I	T	k	K	M	K	K	L	H	v	R	F	D	S	F	L	S	k	252
G	227	L	E	p	L	D	L	Q	G	V	A	S	K	M	K	K	L	H	A	R	F	D	A	F	L	T	e	256
H	225	L	g	W	f	D	V	Q	G	I	v	g	K	M	K	K	L	H	A	R	F	D	A	F	L	n	t	254
I	187	L	D	W	f	D	L	Q	G	I	A	g	K	M	K	K	L	H	A	R	F	D	k	F	L	n	g	216
J	75	L	D	W	f	D	L	Q	G	I	T	A	K	M	K	K	V	H	A	R	F	D	A	F	L	d	a	104
K	225	L	E	k	I	D	p	Q	G	I	k	r	R	M	t	n	n	f	T	K	F	i	g	I	S	g	254	

A	258	E	H	K	g	k	-	-	-	-	-	-	i	f	g	e	m	k	D	L	L	S	T	L	I	S	L	K	n	d	a	282		
B	244	E	H	K	s	v	a	-	-	-	-	-	h	q	q	n	g	g	D	L	L	S	i	L	I	S	L	K	-	d	n	c	268	
C	264	D	H	K	i	N	s	-	d	e	t	k	g	H	s	-	g	t	D	L	L	n	m	L	I	S	L	K	d	a	d	d	291	
D	255	E	H	e	m	k	G	-	-	-	-	-	q	d	q	K	h	t	D	M	L	S	T	L	I	S	L	K	g	t	d	l	280	
E	256	D	H	K	k	G	s	-	-	-	-	-	g	t	a	g	h	v	D	M	L	T	T	L	L	S	L	K	-	e	d	a	280	
F	253	E	H	K	t	a	p	-	-	-	-	-	g	g	l	g	h	t	D	L	L	S	T	L	I	S	L	K	d	d	a	d	278	
G	257	E	R	c	h	G	q	i	-	n	n	s	g	a	H	q	d	d	D	L	L	S	T	L	I	S	f	K	g	d	d	d	285	
H	255	E	H	K	c	v	n	n	q	h	t	t	l	s	K	d	v	v	D	f	L	S	T	L	I	r	L	K	d	n	g	a	284	
I	217	D	R	K	s	N	g	s	n	-	-	g	a	e	Q	y	v	v	D	L	L	S	v	L	I	S	L	Q	d	d	s	n	i	244
J	105	E	H	K	s	N	g	s	r	-	-	g	a	k	Q	h	v	v	D	L	L	S	m	L	I	S	L	Q	d	d	n	n	i	132
K	255	D	R	i	k	e	r	n	-	-	-	l	r	d	n	a	n	i	D	V	L	d	A	L	L	n	I	s	q	e	n	p	282	

E-----E

Figure 20e

E-----E

A	283	D	N	d	g	-	-	G	K	L	T	D	T	E	I	K	A	L	L	N	L	F	v	A	G	T	D	T	S	310		
B	269	D	G	-	-	e	-	G	G	K	f	S	a	T	E	I	K	A	L	L	L	d	L	F	T	A	G	T	D	T	S	296
C	292	a	e	-	-	-	-	G	G	R	L	T	D	v	E	I	K	A	L	L	L	N	L	F	A	A	G	T	D	T	S	318
D	281	D	G	-	-	d	-	G	G	s	L	T	D	T	E	I	K	A	L	L	L	N	M	F	T	A	G	T	D	T	S	308
E	281	D	G	-	-	e	-	G	G	K	L	T	D	T	E	I	K	A	L	L	L	N	M	F	T	A	G	T	D	T	S	308
F	279	i	e	-	-	-	-	G	G	K	L	T	D	T	E	I	K	A	L	L	L	N	L	F	T	A	G	T	D	T	S	305
G	286	g	d	-	-	-	-	G	s	R	L	T	D	T	E	I	K	A	L	L	L	N	L	I	-	-	-	D	T	T	S	308
H	285	D	m	d	c	e	-	G	K	L	T	D	T	E	I	K	A	L	L	L	N	L	F	T	A	G	T	D	T	S	314	
I	245	D	G	g	d	e	-	G	t	K	L	T	D	T	E	I	K	A	L	L	L	N	L	F	i	A	G	T	D	T	S	274
J	133	D	G	-	e	s	-	G	a	K	L	T	D	T	E	I	K	A	L	L	L	N	L	F	T	A	G	T	D	T	S	161
K	283	E	e	-	-	-	-	I	d	r	N	Q	I	e	q	L	c	L	d	L	F	A	A	G	T	D	T	T	S	306		

A	311	S	T	V	E	W	A	I	A	E	L	I	R	N	P	K	I	L	a	Q	A	Q	Q	E	I	D	k	V	V	G	R	340
B	297	S	T	t	E	W	A	I	A	E	L	I	R	H	P	K	I	L	a	Q	v	Q	Q	E	M	D	s	V	V	G	R	326
C	319	S	T	V	E	W	C	I	A	E	L	V	R	H	P	e	I	L	a	Q	v	Q	k	E	L	D	s	V	V	G	K	348
D	309	S	T	V	D	W	A	I	A	E	L	I	R	H	P	d	I	M	v	K	A	Q	E	E	L	D	i	V	V	G	R	338
E	309	S	T	V	E	W	A	I	A	E	L	I	R	H	P	H	M	L	a	R	v	Q	k	E	L	D	d	f	V	G	H	338
F	306	S	T	V	E	W	A	I	A	E	L	I	R	H	P	Q	I	L	k	Q	A	R	E	E	I	D	a	V	V	G	Q	335
G	309	S	T	V	E	W	A	V	A	E	L	L	R	H	P	K	t	L	a	Q	v	Q	R	E	L	D	s	V	V	G	K	338
H	315	S	T	V	E	W	A	I	A	E	L	L	R	N	P	K	I	L	n	Q	A	Q	Q	E	L	D	i	V	V	G	Q	344
I	275	S	T	V	E	W	A	M	A	E	L	I	R	N	P	K	L	L	v	Q	A	Q	E	E	L	D	r	V	V	G	p	304
J	162	S	T	V	E	W	A	I	A	E	L	I	R	N	P	e	V	L	v	Q	A	Q	Q	E	L	D	r	V	V	G	p	191
K	307	n	T	L	E	W	A	M	A	E	L	L	Q	N	P	H	t	L	q	K	A	Q	E	E	L	a	q	V	I	G	K	336

F-----F

Figure 20f

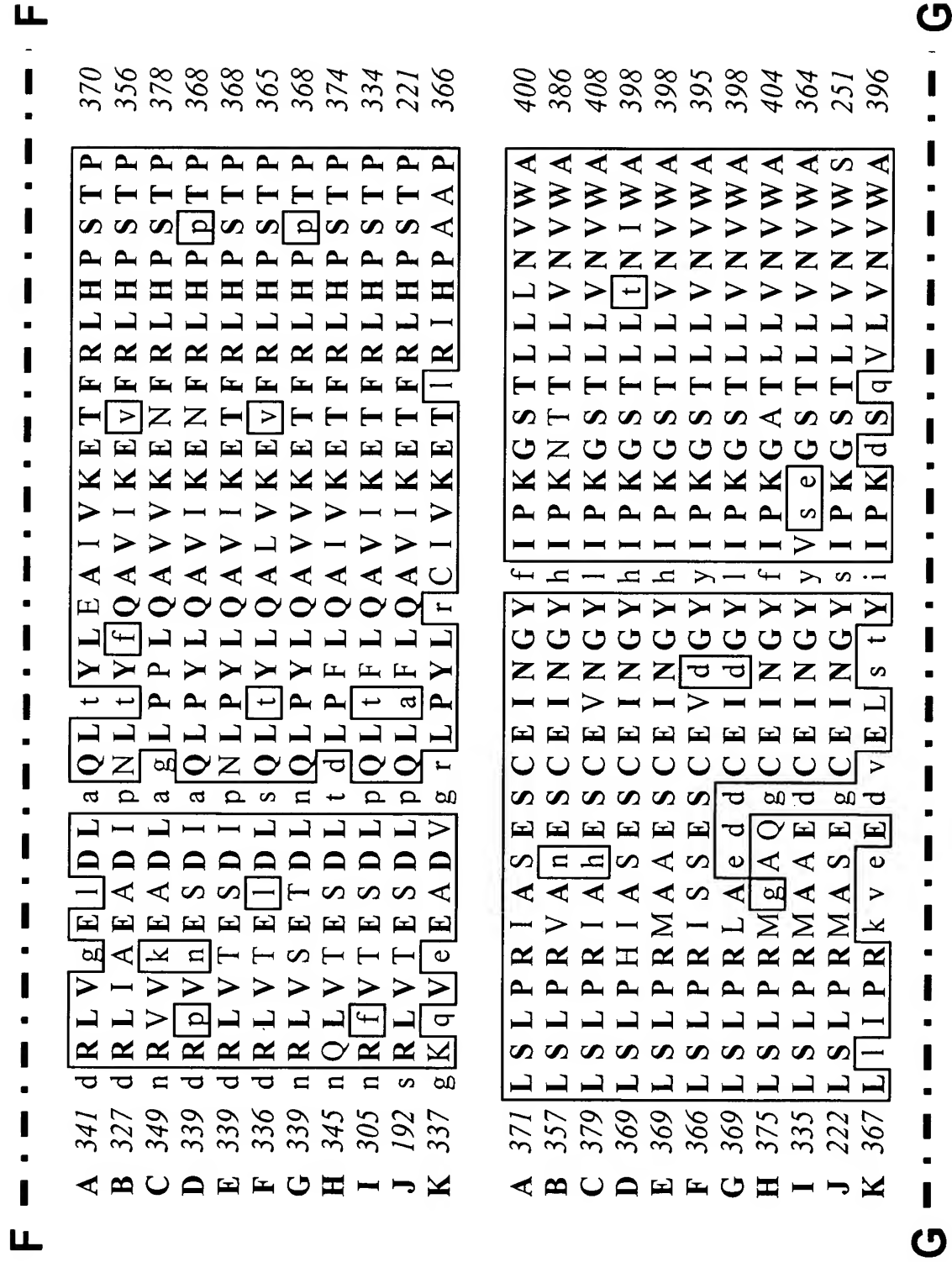


Figure 20g

G-----G

A	401	I	A	R	D	P	n	a	W	A	D	P	L	E	F	R	P	E	R	F	L	P	G	G	E	K	P	k	V	D	V	430
B	387	I	A	R	D	P	e	V	W	A	D	P	L	E	F	K	P	E	R	F	L	P	G	G	E	K	P	N	V	D	V	416
C	409	I	A	R	D	P	n	V	W	d	E	P	L	E	F	R	P	E	R	F	L	k	G	G	E	K	P	N	V	D	V	438
D	399	I	A	R	D	P	d	q	W	S	D	P	L	a	F	K	P	E	R	F	L	P	G	G	E	K	s	G	V	D	V	428
E	399	I	S	R	D	P	a	e	W	A	D	P	L	E	F	K	P	E	R	F	L	P	G	G	E	K	P	N	V	D	I	428
F	396	I	A	R	D	P	k	M	W	A	D	P	L	E	F	R	P	s	R	F	L	P	G	G	E	K	P	G	a	D	V	425
G	399	I	A	R	D	P	k	V	W	A	D	P	L	E	F	R	P	E	R	F	L	t	G	G	E	K	a	d	V	D	V	428
H	405	I	A	R	D	P	n	V	W	T	n	P	L	E	F	n	P	h	R	F	L	P	G	G	E	K	P	N	V	D	I	434
I	365	I	A	R	D	P	n	a	W	A	n	P	L	D	F	n	P	t	R	F	L	a	G	G	E	K	P	N	V	D	V	394
J	252	I	A	R	D	P	s	I	W	A	D	P	L	E	F	R	P	a	R	F	L	P	G	G	E	K	P	N	V	D	V	281
K	397	I	g	R	n	s	d	L	W	e	n	P	L	v	F	K	P	E	R	F	w	e	s	-	-	-	e	I	D	I	422	

A	431	R	G	N	D	F	E	V	I	P	F	G	A	G	R	R	I	C	A	G	M	n	L	G	I	R	M	V	Q	L	M	460
B	417	K	G	N	D	F	E	L	I	P	F	G	A	G	R	R	I	C	A	G	L	S	L	G	L	R	M	V	Q	L	M	446
C	439	R	G	N	D	F	E	L	I	P	F	G	A	G	R	R	I	C	A	G	M	S	L	G	I	R	M	V	Q	L	L	468
D	429	K	G	s	D	F	E	L	I	P	F	G	A	G	R	R	I	C	A	G	L	S	L	G	L	R	t	I	Q	f	L	458
E	429	R	G	N	D	F	E	V	I	P	F	G	A	G	R	R	I	C	A	G	M	S	L	G	L	R	M	V	H	L	M	458
F	426	R	G	N	D	F	E	V	I	P	F	G	A	G	R	R	I	C	A	G	M	S	L	G	L	R	M	V	Q	L	L	455
G	429	K	G	N	D	F	E	V	I	P	F	G	A	G	R	R	I	C	A	G	V	g	L	G	I	R	M	V	Q	L	L	458
H	435	K	G	N	D	F	E	V	I	P	F	G	A	G	R	R	I	C	S	G	M	S	L	G	I	R	M	V	H	L	L	464
I	395	K	G	N	D	F	E	V	I	P	F	G	A	G	R	R	I	C	A	G	M	S	L	G	I	R	M	V	Q	L	V	424
J	282	R	G	N	D	F	E	V	I	P	F	G	A	G	R	R	I	C	A	G	M	S	L	G	L	R	M	V	Q	L	s	311
K	423	R	G	r	D	F	E	L	I	P	F	G	A	G	R	R	I	C	p	G	L	p	L	a	M	R	M	I	p	V	a	452

H-----H

Figure 20h

H-----H

A	461	i	A	T	L	I	H	A	F	n	W	D	L	v	s	G	q	I	P	E	m	L	N	M	E	E	A	Y	G	L	T	490	
B	447		T	A	T	L	a	H	T	Y	D	W	a	L	A	d	G	L	m	P	E	k	L	N	M	D	E	A	Y	G	L	T	476
C	469		T	A	T	L	n	H	A	F	D	f	D	L	A	d	G	q	I	P	E	s	L	N	M	E	E	A	Y	G	L	T	498
D	459		T	A	T	L	V	Q	g	F	D	W	E	L	A	G	V	t	P	E	k	L	N	M	E	E	S	Y	G	L	T	488	
E	459		T	A	T	L	V	H	A	F	n	W	a	L	A	d	G	L	t	P	E	k	L	N	M	D	E	A	Y	G	L	T	488
F	456	i	A	T	L	V	Q	T	F	D	W	E	L	A	N	G	L	e	P	E	m	L	N	M	E	E	A	Y	G	L	T	485	
G	459		T	A	S	L	I	H	A	F	D	I	D	L	A	N	G	L	I	a	Q	n	L	N	M	E	E	A	Y	G	L	T	488
H	465	v	A	T	L	V	H	A	F	D	W	D	L	v	N	G	q	s	E	t	L	N	M	E	E	A	Y	G	L	T	494		
I	425		T	A	S	L	V	H	S	F	D	W	a	L	I	d	G	L	k	P	E	k	L	d	M	E	E	g	Y	G	L	T	454
J	312		T	A	T	L	V	H	S	F	n	W	D	L	I	N	G	M	s	P	d	k	L	d	M	E	E	A	Y	G	L	T	341
K	453	i	g	S	L	L	n	S	F	n	W	k	L	y	G	G	I	a	P	k	d	L	d	M	q	E	k	F	G	I	T	482	

A	491	L	Q	R	A	d	P	L	V	V	H	P	R	P	R	L	e	a	Q	a	Y	i	g	512			
B	477	L	Q	R	A	v	P	L	M	V	H	P	t	r	R	L	S	a	R	V	Y	n	s	g	500		
C	499	L	Q	R	A	d	P	L	V	V	H	P	K	P	R	L								512			
D	489	L	Q	R	A	v	P	L	V	V	H	P	K	P	R	L	A	p	V	Y	g	l	g	s	g	513	
E	489	L	Q	R	A	a	P	L	M	V	H	P	R	t	R	L	A	p	Q	a	Y	k	t	s	s	s	512
F	486	L	Q	R	A	a	P	L	M	V	H	P	K	P	R	L	A	p	H	V	Y	e	s	i		508	
G	489	L	Q	R	A	e	P	L	L	V	H	P	R	P	R	L	A	t	H	V	Y	t	l	n		508	
H	495	L	Q	R	A	v	P	L	M	L	H	P	K	P	R	L	q	p	H	L	Y				517		
I	455	L	Q	R	A	s	P	L	I	V	H	P	K	P	R	L	S	a	Q	V	Y	c	m		476		
J	342	L	Q	R	A	s	P	L	I	V	H	P	K	P	R	L	A	s				v	k		363		
K	483	L	a	K	A	q	P	L	L	a	i	P	t	P	I				M	Y					496		

Figure 20i